

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/24878

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :Please See Extra Sheet.

US CL :Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Extra Sheet.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 6,298,120 B1 (CIVANLAR ET AL.) 02 OCTOBER 2001, COL.2-6	1-41
Y	US 6,009,469 A (MATTAWAY ET AL.) 28 Dec., 1999, COL.3-34.	1-41
Y, P	US 6,243,376 B1 (NG ET AL.) 05 JUNE 2001, COL.2-12.	1-41
A, P	US 6,243,759 B1 (BODEN ET AL.) 05 JUNE 2001, COL.2-8.	1-41
A, P	US 6,259,771 B1 (KREDO ET AL.) 10 JULY 2001, COL.1-4.	1-41
A, P	US 6,208,638 B1 (RIELEY ET AL.) 27 MARCH 2001, COL.2-6.	1-41

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"B"	earlier document published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search 30 OCTOBER 2001	Date of mailing of the international search report 19 DEC 2001
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer <i>Peggy Hanan</i> GLEN BURGESS Telephone No. (703) 306-4529

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US 6,226,678 B1 (MATTAWAY ET AL) 01 MAY 2001, COL 2-30.	1-41

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A. CLASSIFICATION OF SUBJECT MATTER:

IPC (7):

G06F 18/00, 18/38, 17/00; H04L 12/66; H04M 1/64, 3/00, 7/00, 11/00

A. CLASSIFICATION OF SUBJECT MATTER:

US CL :

370/352, 353, 354, 380, 389, 392, 401; 379/88.17, 219, 220.01, 244, 901; 709/203, 217, 218, 219, 220, 221, 223, 224, 225, 227, 230, 238

B. FIELDS SEARCHED

Minimum documentation searched

Classification System: U.S.

370/352, 353, 354, 380, 389, 392, 401; 379/88.17, 219, 220.01, 244, 901; 709/203, 217, 218, 219, 220, 221, 223, 224, 225, 227, 230, 238